



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/740,038	12/19/2003	Chii-Moon Liou	SP3030-P-1429-AAJ	2495

7590

06/16/2006

Chii-Moon Liou
235 Chung-Ho
P.O. Box 10-69
Taipei,
TAIWAN

EXAMINER

HUYNH, KIM NGOC

ART UNIT

PAPER NUMBER

2182

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/740,038	Applicant(s) LIOU, CHII-MOON	
	Examiner Ernest Unelus	Art Unit 2187	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 December 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12/19/2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The instant application having Application No. 10/740,038 has a total of 7 claims pending in the application; there is 1 independent claim and 6 dependent claims, all of which are ready for examination by the examiner.

I. INFORMATION CONCERNING OATH/DECLARATION

Oath/Declaration

2. The applicant's oath/declaration has been reviewed by the examiner and is found to conform to the requirements prescribed in 37 C.F.R. 1.63.

II. INFORMATION CONCERNING DRAWINGS

Drawings

3. The applicant's drawings submitted are acceptable for examination purposes.

III. OBJECTIONS TO THE SPECIFICATION

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following title is suggested: -- **Replaceable multiple-functional interface card including a rotary set** --.

IV. REJECTIONS NOT BASED ON PRIOR ART

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 4 contains the trademark/trade name “blue tooth”. Where a trademark or trade name is used in a claim as a limitation to identify or describe a particular material or product, the claim does not comply with the requirements of 35 U.S.C. 112, second paragraph. See *Ex parte Simpson*, 218 USPQ 1020 (Bd. App. 1982). The claim scope is uncertain since the trademark or trade name cannot be used properly to identify any particular material or product. A trademark or trade name is used to identify a source of goods, and not the goods themselves. Thus, a trademark or trade name does not identify or describe the goods associated with the trademark or trade name. In the present case, the trademark/trade name is used to identify/describe the “inserting seat” and, accordingly, the identification/description is indefinite.

V. REJECTIONS BASED ON PRIOR ART

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claim 1, 2, and 5-7** are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohmori (US pat. 5,790,193) in view of Chennakeshu (US 2004/0175993).

8. As per **claim 1**, the examiner notes that a proper interpretation of claim 1 appears to be drawn only toward the Replaceable multiple-function interface card and not toward the electronic device including an inserting set and rotating set. Since applicant's claim 1 uses the phrase "for inserting", which considered intended use language. Accordingly, the claims are rejected as indicated below.

Ohmori discloses "A replaceable multiple-functional interface card (**18 of fig. 1**) {for inserting into an inserting seat of an electronic device; the inserting seat being extended with a rotary seat; and one side of the rotary set being installed with an inserting hole} (**see note above**); the replaceable multiple-functional interface card (**18**) comprising an interface card (**38 of fig. 1**); a receptacle (**24 of fig. 1**) extended from one end of an interface card (**see fig. 1**); a plug (**20 and 22 of fig. 1**) extended from one side of the receptacle (**see fig. 1**); an inserting seat (**12 of fig. 1**), an inserting hole (**26 of fig. 1**), and wherein when the plug is inserted into the

Art Unit: 2187

inserting hole (see **fig. 1**). Ohmori fail to specifically disclose “the plug being wound by three insulating wires; the three insulating wires dividing the plug into four surfaces; data in the interface card is transferred between the inserting seat and the interface card through the four surfaces”.

Chennakeshu discloses the plug (**plug 42 of fig. 4**) being wound by three insulating wires (see **fig. 4**); the three insulating wires dividing the plug into four surfaces (see **fig. 4**); data in the interface card is transferred between the inserting seat and the interface card through the four surfaces” (**Chennakeshu discloses “A universal four-contact plug and jack assembly permits interconnection of microphone and stereo audio signals between an audio peripheral incorporating the four-contact plug and an audio device that includes the four-contact jack”, see abstract**).

Ohmori (US pat. 5,790,193) and Chennakeshu (US 2004/0175993)) are analogous art because they are from the same field of endeavor of transferring information between two electronic devices.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify the replaceable multiple-functional interface card where data in the interface card is transferred between the inserting seat and the interface card through the plug (adaptor) as described by Ohmori and having a universal four-contact plug and jack assembly that permits interconnection of microphone and stereo audio signals between an audio peripheral incorporating the four-contact plug and an audio device that includes the four-contact jack as taught by Chennakeshu.

The motivation for doing so would have been because Chennakeshu teaches that the plug with the three insulating wires with the four surfaces saves space and can be use with many different devices **[Many types of electronic devices and peripherals can benefit from the inclusion of the enhanced jacks and plugs of the present invention. For example, a portable communication device, such as a mobile station, can consolidate audio output and microphone input functions into a single enhanced audio jack. Including the enhanced audio jack thus saves valuable space and reduces cost, paragraph 0011)]**.

Therefore, it would have been obvious to combine Ohmori (US pat. 5,790,193) and Chennakeshu (US 2004/0175993)) for the benefit of creating a replaceable multiple-functional interface card to obtain the invention as specified in claim 1.

9. As **per claim 2**, the combination of Ohmori and Chennakeshu discloses “claim 1” [see **rejection to claim 1 above**] “wherein the plug is replaceable so as to replace interface card” **[with respect to this limitation, as Ohmori discloses, the plug 20 and 22 of fig. 1, is connected to the replaceable multiple-functional interface card, which makes the interface card replaceable also]**.

10. As **per claim 5**, the combination of Ohmori and Chennakeshu discloses “wherein the inserting seat is the inserting seat of a digital camera” **[with respect to this limitation, Ohmori discloses the inserting seat being a camera (see camera 12 in fig. 1)]**.

Art Unit: 2187

11. As per claim 6, the combination of Ohmori and Chennakeshu discloses “wherein two of the surfaces are contact surfaces for positive and negative electrodes, respectively” **[with respect to this limitation, it is well know in the art to have the connection between the plug and the jack where contact between terminals disposed along a plug receiving hole of the jack and the periphery of the plug. In other words, a plurality of terminals are mounted inside of the jack and the plurality of terminals serve as a ground terminal and as positive and negative electrode].**

12. As per claim 7, the combination of Ohmori and Chennakeshu discloses “wherein two of the surfaces are used to receive and transmit signals, respectively” **[with respect to this limitation, Chennakeshu discloses where the four surface are use by a microphone (14) and speaker (12-1) to transmit and receive signals, see paragraph 0038]**

13. Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohmori (US pat. 5,790,193) in view of Chennakeshu (US 2004/0175993) as applied to claim 1 above, and further in view of Arnouse (US 2004/0255081).

14. As per claims 3 and 4, the combination of Ohmori and Chennakeshu discloses “The replaceable multiple-functional interface card as claimed in claim 1,” **[See rejection to claim 1 above]** “wherein the inserting seat is the inserting seat of a GPS satellite signal receiver and a blue tooth device”. **With respect to this limitation, Ohmori and Chennakeshu fail to disclose**

“wherein the inserting seat is the inserting seat of a GPS satellite signal receiver and a blue tooth device”.

Arnouse discloses wherein the inserting seat is the inserting seat of a GPS satellite signal receiver and a blue tooth device (**see paragraphs 0075 and 0092**).

Ohmori (US pat. 5,790,193), Chennakeshu (US 2004/0175993), and Arnouse (US 2004/0255081) are analogous art because they are from the same field of endeavor of transferring information through electronic devices.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to modify the replaceable multiple-functional interface card where data in the interface card is transferred between the inserting seat and the interface card through the plug (adaptor) as described by Ohmori and having a universal four-contact plug and jack assembly that permits interconnection of microphone and stereo audio signals between an audio peripheral incorporating the four-contact plug and an audio device that includes the four-contact jack as taught by Chennakeshu and wherein the inserting seat is the inserting seat of a GPS satellite signal receiver and a blue tooth device as taught by Arnouse.

The motivation for doing so would have been because Arnouse teaches integration of location tracking technology, such as GPS technology and blue tooth allowing for exact placement of the device in time and space when it is utilized (**see paragraphs 0075 and 0092**).

Therefore, it would have been obvious to combine Ohmori (US pat. 5,790,193), Chennakeshu (US 2004/0175993), and Arnouse (US 2004/0255081) for the benefit of creating a replaceable multiple-functional interface card to obtain the invention as specified in claim 4.

Art Unit: 2187

VI. RELEVANT ART CITED BY THE EXAMINER

15. The following prior art made of record and not relied upon is cited to establish the level of skill in the applicant's art and those arts considered reasonably pertinent to applicant's disclosure. See MPEP 707.05(c).

16. The following reference teaches **replaceable multiple-function type of interface card**.

U.S. PATENT NUMBER

US 2005/0273648

17. The following reference teaches replaceable multiple-function interface card.

U.S. PATENT NUMBER

US 6,118,485

US 6,995,799

US 6,118,485

US 6,873,356

IX. CLOSING COMMENTS

Conclusion

a. STATUS OF CLAIMS IN THE APPLICATION

18. The following is a summary of the treatment and status of all claims in the application as recommended by M.P.E.P. 707.07(i):

a(1) CLAIMS REJECTED IN THE APPLICATION

19. Per the instant office action, claims 1-7 have received a first action on the merits and are subject of a first action non-final.

b. DIRECTION OF FUTURE CORRESPONDENCES

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ernest Unelus whose telephone number is (571) 272-8596.

The examiner can normally be reached on Monday to Friday 9:00 AM to 5:00 PM.

IMPORTANT NOTE

21. If attempts to reach the above noted Examiner by telephone are unsuccessful, the Examiner's supervisor, Mr. Donald Sparks, can be reached at the following telephone number:
Area Code (571) 272-4201.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


DONALD SPARKS
SUPERVISORY PATENT EXAMINER

June 8, 2006

Ernest Unelus
Examiner
Art Unit 2187